

TECHNICAL DATA SHEET (TDS)

Product Name	GRAPESEED OIL
Botanical Name	Vitis vinifera
CAS #	8024-22-4 ; 84929-27-1
EINECS #	287-896-9 ; 284-511-6
INCI Name	Vitis vinifera (Grape) Seed Oil

Part Used	Seeds
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Pale yellow to light green colored liquid
Odour	Characteristic mild odour
Refractive Index	1.460 - 1.477 @ 20°C
Specific Gravity (g/mL)	0.910 - 0.924 @ 20°C
Saponification Value (mgKOH/g)	188 – 194
Peroxide Value (meq O ₂ /kg)	MAX 10
Iodine Value (g I ₂ /100g)	100 – 144
Free Fatty Acids (% oleic)	Less than 0.5
Acid Value (mgKOH/g)	MAX 1.5
Solubility	Soluble in cosmetic esters and fixed oils; Insoluble in water

FREE ACID COMPOSITION

FATTY ACID	C-CHAIN	SPECIFICATIONS (%)
Palmitic Acid	C16:0	2.00 – 11.00
Palmitoleic Acid	C16:1 (n-7)	Maximum 1.20
Stearic Acid	C18:0	1.00 – 6.80
Oleic Acid	C18:1 (n-9)	12.00 – 40.00
Linoleic Acid	C18:2 (n-6)	40.00 – 78.00
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 1.00

MICROBIAL ANALYSIS	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149
Yeast and Mould	< 10 CFU/g	ISO 16212
Candida albicans	ABSENT / 1g	ISO 18416
Escherichia coli	ABSENT / 1g	ISO 21150
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717
Staphylococcus aureus	ABSENT / 1g	ISO 22718

<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Lead: Pb (mg/kg or ppm)	< 10 ppm	na
Arsenic: As (mg/kg or ppm)	< 2 ppm	na
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na

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